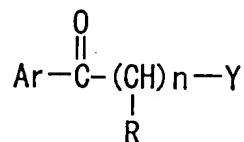


CLAIMS

1. An agent for improving excretory potency of the urinary bladder which comprises an amine compound of non-carbamate-type having an acetylcholinesterase-inhibiting action.

2. An agent according to claim 1, wherein the amine compound is a non-carbamate-type compound of the formula:



wherein Ar is optionally condensed phenyl in which the phenyl moiety may be substituted by a substituent or substituents;

n is an integer of 1 to 10;

R is hydrogen or optionally substituted hydrocarbon group;

Y is optionally substituted amino or optionally substituted nitrogen-containing saturated heterocyclic group;

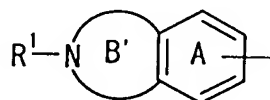
or a salt thereof.

3. An agent according to claim 2, wherein Ar is phenyl which may be substituted by 1 to 4 substituents selected from (i) optionally halogenated lower alkyl, (ii)

halogen, (iii) lower alkylenedioxy, (iv) nitro, (v) cyano,
 (vi) hydroxy, (vii) optionally halogenated lower alkoxy,
 (viii) cycloalkyl, (ix) optionally halogenated lower
 alkylthio, (x) amino, (xi) mono-lower alkylamino, (xii) di-
 5 lower alkylamino, (xiii) 5- to 7-membered cyclic amino,
 (xiv) lower alkyl-carbonylamino, (xv) lower alkyl-
 sulfonylamino, (xvi) lower alkoxy-carbonyl, (xvii) carboxy,
 (xviii) lower alkyl-carbonyl, (xix) cycloalkyl-carbonyl,
 (xx) carbamoyl, thiocarbamoyl, (xxi) mono-lower alkyl-
 10 carbamoyl, (xxii) di-lower alkyl-carbamoyl, (xxiii) lower
 alkylsulfonyl, (xxiv) cycloalkylsulfonyl, (xxv) phenyl,
 (xxvi) naphthyl, (xxvii) mono-phenyl-lower alkyl, (xxviii)
 di-phenyl-lower alkyl, (xxix) mono-phenyl-lower alkyl-
 carbonyloxy, (xxx) di-phenyl-lower alkyl-carbonyloxy,
 15 (xxxi) phenoxy, (xxxii) mono-phenyl-lower alkyl-carbonyl,
 (xxxiii) di-phenyl-lower alkyl-carbonyl, (xxxiv) benzoyl,
 (xxxv) phenoxycarbonyl, (xxxvi) phenyl-lower alkyl-
 carbamoyl, (xxxvii) phenylcarbamoyl, (xxxviii) phenyl-lower
 alkyl-carbonylamino, (xxxix) phenyl-lower alkylamino,
 20 (xxxx) phenyl-lower alkylsulfonyl, (xxxxi) phenylsulfonyl,
 (xxxxii) phenyl-lower alkylsulfinyl, (xxxxiii) phenyl-lower
 alkylsulfonyl-amino, and (xxxxiv) phenylsulfonylamino
 (wherein the phenyl, naphthyl, mono-phenyl-lower alkyl, di-
 phenyl-lower alkyl, mono-phenyl-lower alkyl-carbonyloxy,
 25 di-phenyl-lower alkyl-carbonyloxy, phenoxy, mono-phenyl-

lower alkyl-carbonyl, di-phenyl-lower alkyl-carbonyl, benzoyl, phenoxy-carbonyl, phenyl-lower alkyl-carbamoyl, phenylcarbamoyl, phenyl-lower alkyl-carbonylamino, phenyl-lower alkylamino, phenyl-lower alkylsulfonyl, phenylsulfonyl, phenyl-lower alkylsulfinyl, phenyl-lower alkylsulfonylamino and phenylsulfonylamino as mentioned above in (xxv) to (xxxxiv) may further be substituted by 1 to 4 substituents selected from lower alkyl, lower alkoxy, halogen, hydroxy, benzyloxy, amino, mono-lower alkylamino, di-lower alkylamino, nitro, lower alkyl-carbonyl and benzoyl).

4. An agent according to claim 2, wherein Ar is a group of the formula:



wherein R¹ is hydrogen, optionally substituted hydrocarbon group, acyl, or optionally substituted heterocyclic group; the ring A is an optionally substituted benzene ring; the ring B' is a 5- to 9-membered nitrogen-containing heterocycle which may further be substituted by oxo.

5. An agent according to claim 4, wherein R¹ is
 (I) hydrogen;
 (II) alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl-C₂₋₁₂ alkynyl, cycloalkyl-alkyl or aryl-

aryl-C₁₋₁₀ alkyl which may be substituted by 1 to 5
 substituents selected from (i) halogen, (ii) nitro, (iii)
 cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated
 lower alkyl, (vii) optionally halogenated lower alkoxy,
 5 (viii) optionally halogenated lower alkylthio, (ix) amino,
 (x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii)
 5- to 7-membered cyclic amino which may contain 1 to 3
 heteroatoms selected from nitrogen, oxygen and sulfur in
 addition to carbon atoms and one nitrogen atom, (xiii)
 10 lower alkyl-carbonylamino, (xiv) lower alkyl-sulfonylamino,
 (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower
 alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix)
 mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl,
 (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-
 15 lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-
 membered heterocyclic group which contains 1 to 6
 heteroatoms selected from nitrogen, oxygen and sulfur and
 which may be substituted by 1 to 5 substituents selected
 from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5)
 20 hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower
 alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-
 lower alkylamino, (12) 5- to 7-membered cyclic amino which
 may contain 1 to 3 heteroatoms selected from nitrogen,
 oxygen and sulfur in addition to carbon atoms and one
 25 nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower

alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkylcarbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv) C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-methylureido, 3-ethylureido, 3-phenylureido, 3-(4-fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii) thioureido, 3-methylthioureido, 3-ethylthioureido, 3-phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-(1-naphthyl)thioureido, (xxix) amidino, N¹-methyramidino, N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethyramidino, N¹,N²-dimethyramidino, N¹-methyl-N¹-ethylamidino, N¹,N¹-diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino, 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi) pyrrolidinocarbonyl, piperidinocarbonyl, (4-methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl, [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,

[4-(4-nitrophenyl)piperazino]carbonyl, (4-benzylpiperazino)carbonyl, morpholinocarbonyl, or thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl, methylaminothiocarbonyl, or dimethylaminothiocarbonyl, (xxxiii) aminosulfonyl, methylaminosulfonyl, or dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino, (2,5-dichlorophenyl)sulfonylamino, (4-methoxyphenyl)sulfonylamino, (4-acetylaminophenyl)sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno, (xxxxi) phosphono, and (xxxxii) di-lower alkoxyphosphoryl;

(III) acyl of the formula: $-(C=O)-R^2$, $-(C=O)-OR^2$, $-(C=O)-NR^2R^3$, $-SO_2-R^2$, $-SO-R^2$, $-(C=S)-OR^2$ or $-(C=S)NR^2R^3$ (wherein R^2 and R^3 each is [1] hydrogen, [2] alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl- C_{2-12} alkynyl, cycloalkyl-alkyl or aryl-aryl- C_{1-10} alkyl which may be substituted by 1 to 5 substituents selected from (i) halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated lower alkyl, (vii) optionally halogenated lower alkoxy, (viii) optionally halogenated lower alkylthio, (ix) amino, (x) mono-lower alkylamino,

(xi) di-lower alkylamino, (xii) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv) lower alkyl-sulfonylamino, (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-membered heterocyclic group which contains 1 to 6 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkylcarbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv) C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-methylureido, 3-ethylureido, 3-phenylureido, 3-(4-

fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii) thioureido, 3-methylthioureido, 3-ethylthioureido, 3-phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-(1-naphthyl)thioureido, (xxix) amidino, N¹-methyramidino, N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethyramidino, N¹,N²-dimethyramidino, N¹-methyl-N¹-ethylamidino, N¹,N¹-diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino, 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi) pyrrolidinocarbonyl, piperidinocarbonyl, (4-methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl, [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl, [4-(4-nitrophenyl)piperazino]carbonyl, (4-benzylpiperazino)carbonyl, morpholinocarbonyl, or thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl, methylaminothiocarbonyl, or dimethylaminothiocarbonyl, (xxxiii) aminosulfonyl, methylaminosulfonyl, or dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-

methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino, (2,5-dichlorophenyl)sulfonylamino, (4-methoxyphenyl)sulfonylamino, (4-acetylamino-phenyl)sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno, (xxxxi) phosphono, and (xxxxii) di-lower alkoxyphosphoryl; or

(IV) 5- to 14-membered heterocyclic group which contains 1 to 6 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl;

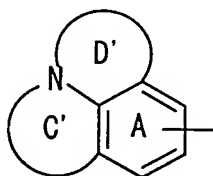
the ring A is a benzene ring which may be substituted by 1 to 3 substituents selected from (i)

optionally halogenated lower alkyl, (ii) halogen, (iii)
 lower alkylenedioxy, (iv) nitro, (v) cyano, (vi) hydroxy,
 (vii) optionally halogenated lower alkoxy, (viii)
 cycloalkyl, (ix) optionally halogenated lower alkylthio,
 5 (x) amino, (xi) mono-lower alkylamino, (xii) di-lower
 alkylamino, (xiii) 5- to 7-membered cyclic amino, (xiv)
 lower alkyl-carbonylamino, (xv) lower alkyl-sulfonylamino,
 (xvi) lower alkoxy-carbonyl, (xvii) carboxy, (xviii) lower
 alkyl-carbonyl, (xix) cycloalkyl-carbonyl, (xx) carbamoyl,
 10 thiocarbamoyl, (xxi) mono-lower alkyl-carbamoyl, (xxii) di-
 lower alkyl-carbamoyl, (xxiii) lower alkylsulfonyl, (xxiv)
 cycloalkylsulfonyl, (xxv) phenyl, (xxvi) naphthyl, (xxvii)
 mono-phenyl-lower alkyl, (xxviii) di-phenyl-lower alkyl,
 (xxix) mono-phenyl-lower alkyl-carbonyloxy, (xxx) di-
 15 phenyl-lower alkyl-carbonyloxy, (xxxi) phenoxy, (xxxii)
 mono-phenyl-lower alkyl-carbonyl, (xxxiii) di-phenyl-lower
 alkyl-carbonyl, (xxxiv) benzoyl, (xxxv) phenoxycarbonyl,
 (xxxvi) phenyl-lower alkyl-carbamoyl, (xxxvii)
 phenylcarbamoyl, (xxxviii) phenyl-lower alkyl-carbonylamino,
 20 (xxxix) phenyl-lower alkylamino, (xxxx) phenyl-lower
 alkylsulfonyl, (xxxxi) phenylsulfonyl, (xxxxii) phenyl-
 lower alkylsulfinyl, (xxxxiii) phenyl-lower
 alkylsulfonylamino, and (xxxxiv) phenylsulfonylamino
 (wherein the phenyl, naphthyl, mono-phenyl-lower alkyl, di-
 25 phenyl-lower alkyl, mono-phenyl-lower alkyl-carbonyloxy,

di-phenyl-lower alkyl-carbonyloxy, phenoxy, mono-phenyl-lower alkyl-carbonyl, di-phenyl-lower alkyl-carbonyl, benzoyl, phenoxycarbonyl, phenyl-lower alkyl-carbamoyl, phenylcarbamoyl, phenyl-lower alkyl-carbonylamino, phenyl-lower alkylamino, phenyl-lower alkylsulfonyl, phenylsulfonyl, phenyl-lower alkylsulfinyl, phenyl-lower alkylsulfonylamino and phenylsulfonylamino as mentioned above in (xxv) to (xxxxiv) may further be substituted by 1 to 4 substituents selected from lower alkyl, lower alkoxy, halogen, hydroxy, benzyloxy, amino, mono-lower alkylamino, di-lower alkylamino, nitro, lower alkyl-carbonyl and benzoyl); and

the ring B' is 5- to 9-membered nitrogen-containing heterocycle which may further be substituted by oxo and which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom.

6. An agent according to claim 2, wherein Ar is a group of the formula:



wherein the ring A is an optionally substituted benzene ring; the rings C' and D' each is a 5- to 9-membered

nitrogen-containing heterocycle which may further be substituted by oxo.

7. An agent according to claim 6, wherein the ring A is a benzene ring which may be substituted by 1 or 2 substituents selected from (i) optionally halogenated lower alkyl, (ii) halogen, (iii) lower alkylenedioxy, (iv) nitro, (v) cyano, (vi) hydroxy, (vii) optionally halogenated lower alkoxy, (viii) cycloalkyl, (ix) optionally halogenated lower alkylthio, (x) amino, (xi) mono-lower alkylamino, (xii) di-lower alkylamino, (xiii) 5- to 7-membered cyclic amino, (xiv) lower alkyl-carbonylamino, (xv) lower alkyl-sulfonylamino, (xvi) lower alkoxy-carbonyl, (xvii) carboxy, (xviii) lower alkyl-carbonyl, (xix) cycloalkyl-carbonyl, (xx) carbamoyl, thiocarbamoyl, (xxi) mono-lower alkyl-carbamoyl, (xxii) di-lower alkyl-carbamoyl, (xxiii) lower alkylsulfonyl, (xxiv) cycloalkylsulfonyl, (xxv) phenyl, (xxvi) naphthyl, (xxvii) mono-phenyl-lower alkyl, (xxviii) di-phenyl-lower alkyl, (xxix) mono-phenyl-lower alkyl-carbonyloxy, (xxx) di-phenyl-lower alkyl-carbonyloxy, (xxxi) phenoxy, (xxxii) mono-phenyl-lower alkyl-carbonyl, (xxxiii) di-phenyl-lower alkyl-carbonyl, (xxxiv) benzoyl, (xxxv) phenoxycarbonyl, (xxxvi) phenyl-lower alkyl-carbamoyl, (xxxvii) phenylcarbamoyl, (xxxviii) phenyl-lower alkyl-carbonylamino, (xxxix) phenyl-lower alkylamino, (xxxx) phenyl-lower alkylsulfonyl, (xxxxi) phenylsulfonyl,

(xxxxii) phenyl-lower alkylsulfinyl, (xxxxiii) phenyl-lower alkylsulfonylamino, and (xxxxiv) phenylsulfonylamino (wherein the phenyl, naphthyl, mono-phenyl-lower alkyl, di-phenyl-lower alkyl, mono-phenyl-lower alkyl-carbonyloxy, di-phenyl-lower alkyl-carbonyloxy, phenoxy, mono-phenyl-lower alkyl-carbonyl, di-phenyl-lower alkyl-carbonyl, benzoyl, phenoxycarbonyl, phenyl-lower alkyl-carbamoyl, phenylcarbamoyl, phenyl-lower alkyl-carbonylamino, phenyl-lower alkylamino, phenyl-lower alkylsulfonyl, phenylsulfonyl, phenyl-lower alkylsulfinyl, phenyl-lower alkylsulfonylamino and phenylsulfonylamino as mentioned above in (xxv) to (xxxxiv) may further be substituted by 1 to 4 substituents selected from lower alkyl, lower alkoxy, halogen, hydroxy, benzyloxy, amino, mono-lower alkylamino, di-lower alkylamino, nitro, lower alkyl-carbonyl and benzoyl); and

the rings C' and D' each is a 5- to 9-membered nitrogen-containing heterocycle which may further be substituted by oxo and which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom.

8. An agent according to claim 2, wherein n is 2.

9. An agent according to claim 2, wherein R is (I) hydrogen or

(II) alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl-C₂₋₁₂ alkynyl, cycloalkyl-alkyl or aryl-aryl-C₁₋₁₀ alkyl which may be substituted by 1 to 5

5 substituents selected from (i) halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated lower alkyl, (vii) optionally halogenated lower alkoxy, (viii) optionally halogenated lower alkylthio, (ix) amino, (x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii)

10 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv) lower alkyl-sulfonylamino, (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower

15 alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-membered heterocyclic group which contains 1 to 6

20 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-

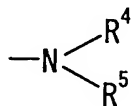
25 lower alkylamino, (12) 5- to 7-membered cyclic amino which

may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv) C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-methylureido, 3-ethylureido, 3-phenylureido, 3-(4-fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii) thioureido, 3-methylthioureido, 3-ethylthioureido, 3-phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-(1-naphthyl)thioureido, (xxix) amidino, N¹-methyamidino, N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethyamidino, N¹,N²-dimethyamidino, N¹-methyl-N¹-ethylamidino, N¹,N¹-diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-nitrophenyl)amidino, (xxx) guanidino, 3-methyl-guanidino, 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi) pyrrolidinocarbonyl, piperidinocarbonyl, (4-methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-

benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl,
 [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-methyl-
 piperazino)carbonyl, (4-phenylpiperazino)carbonyl, [4-(4-
 nitrophenyl)piperazino]carbonyl, (4-benzylpiperazino)-
 5 carbonyl, morpholinocarbonyl, or thiomorpholinocarbonyl,
 (xxxii) aminothiocabonyl, methylaminothiocabonyl, or
 dimethylaminothiocabonyl, (xxxiii) aminosulfonyl, methyl-
 aminosulfonyl, or dimethylaminosulfonyl, (xxxiv) phenyl-
 sulfonylamino, (4-methylphenyl)sulfonylamino, (4-chloro-
 10 phenyl)sulfonylamino, (2,5-dichlorophenyl)sulfonylamino,
 (4-methoxyphenyl)sulfonylamino, (4-acetylaminophenyl)-
 sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino,
 (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii)
 lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower
 15 alkylsulfeno, (xxxxi) phosphono, and (xxxxii) di-lower
 alkoxyphosphoryl.

10. An agent according to claim 2, wherein R is
 hydrogen.

11. An agent according to claim 2, wherein Y is:
 20 (A) a group of the formula:



wherein R⁴ and R⁵ each is (I) hydrogen,
 (II) alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked
 cyclic lower saturated hydrocarbon group, aryl, aralkyl,

aryl-alkenyl, aryl-C₂₋₁₂ alkynyl, cycloalkyl-alkyl or aryl-
aryl-C₁₋₁₀ alkyl which may be substituted by 1 to 5
substituents selected from (i) halogen, (ii) nitro, (iii)
cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated
5 lower alkyl, (vii) optionally halogenated lower alkoxy,
(viii) optionally halogenated lower alkylthio, (ix) amino,
(x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii)
5- to 7-membered cyclic amino which may contain 1 to 3
heteroatoms selected from nitrogen, oxygen and sulfur in
10 addition to carbon atoms and one nitrogen atom, (xiii)
lower alkyl-carbonylamino, (xiv) lower alkyl-sulfonylamino,
(xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower
alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix)
mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl,
15 (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-
lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-
membered heterocyclic group which contains 1 to 6
heteroatoms selected from nitrogen, oxygen and sulfur and
which may be substituted by 1 to 5 substituents selected
20 from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5)
hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower
alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-
lower alkylamino, (12) 5- to 7-membered cyclic amino which
may contain 1 to 3 heteroatoms selected from nitrogen,
25 oxygen and sulfur in addition to carbon atoms and one

nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower
 alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16)
 carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl,
 thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-
 5 lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv)
 C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-
 methylureido, 3-ethylureido, 3-phenylureido, 3-(4-
 fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-
 methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-
 10 bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-
 naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii)
 thioureido, 3-methylthioureido, 3-ethylthioureido, 3-
 phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-
 methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-
 15 (2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-
 (1-naphthyl)thioureido, (xxix) amidino, N¹-methyramidino,
 N¹-ethyramidino, N¹-phenylamidino, N¹,N¹-dimethyramidino,
 N¹,N²-dimethyramidino, N¹-methyl-N¹-ethyramidino, N¹,N¹-
 diethyramidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-
 20 nitrophenyl)amidino, (xxx) guanidino, 3-methyl-guanidino,
 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)
 pyrrolidinocarbonyl, piperidinocarbonyl, (4-methyl-
 piperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-
 benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl,
 25 [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-

methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,
 [4-(4-nitrophenyl)piperazino]carbonyl, (4-
 benzylpiperazino)carbonyl, morpholinocarbonyl, or
 thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl,
 5 methylaminothiocarbonyl, or dimethylaminothiocarbonyl,
 (xxxiii) aminosulfonyl, methylaminosulfonyl, or
 dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-
 methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino,
 (2,5-dichlorophenyl)sulfonylamino, (4-
 10 methoxyphenyl)sulfonylamino, (4-
 acetylaminophenyl)sulfonylamino, or (4-
 nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi)
 sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo,
 (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno,
 15 (xxxxi) phosphono, and (xxxxii) di-lower alkoxyphosphoryl;
 (III) acyl of the formula: $-(C=O)-R^2$, $-(C=O)-OR^2$, $-(C=O)-$
 NR^2R^3 , $-SO_2-R^2$, $-SO-R^2$, $-(C=S)-OR^2$ or $-(C=S)NR^2R^3$ (wherein R^2
 and R^3 each is [1] hydrogen, [2] alkyl, alkenyl, alkynyl,
 cycloalkyl, crosslinked cyclic lower saturated hydrocarbon
 20 group, aryl, aralkyl, aryl-alkenyl, aryl- C_{2-12} alkynyl,
 cycloalkyl-alkyl or aryl-aryl- C_{1-10} alkyl which may be
 substituted by 1 to 5 substituents selected from (i)
 halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy,
 (vi) optionally halogenated lower alkyl, (vii) optionally
 25 halogenated lower alkoxy, (viii) optionally halogenated

lower alkylthio, (ix) amino, (x) mono-lower alkylamino,
 (xi) di-lower alkylamino, (xii) 5- to 7-membered cyclic
 amino which may contain 1 to 3 heteroatoms selected from
 nitrogen, oxygen and sulfur in addition to carbon atoms and
 5 one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv)
 lower alkyl-sulfonylamino, (xv) lower alkoxy-carbonyl,
 (xvi) carboxy, (xvii) lower alkyl-carbonyl, (xviii)
 carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl,
 (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl,
 10 (xxii) lower alkoxy-carbonyl-lower alkyl, (xxiii) carboxy-
 lower alkyl, (xxiv) 5- to 14-membered heterocyclic group
 which contains 1 to 6 heteroatoms selected from nitrogen,
 oxygen and sulfur and which may be substituted by 1 to 5
 substituents selected from (1) halogen, (2) nitro, (3)
 15 cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower
 alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower
 alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered
 cyclic amino which may contain 1 to 3 heteroatoms selected
 from nitrogen, oxygen and sulfur in addition to carbon
 20 atoms and one nitrogen atom, (13) lower alkyl-carbonylamino,
 (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl,
 (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl,
 thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-
 lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv)
 25 C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-

methylureido, 3-ethylureido, 3-phenylureido, 3-(4-
 fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-
 methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-
 bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-
 5 naphthyl)ureido, or 3-(2-biphenyl)ureido, .(xxviii)
 thioureido, 3-methylthioureido, 3-ethylthioureido, 3-
 phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-
 methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-
 (2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-
 10 (1-naphthyl)thioureido, (xxix) amidino, N¹-methyramidino,
 N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethyramidino,
 N¹,N²-dimethyramidino, N¹-methyl-N¹-ethylamidino, N¹,N¹-
 diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-
 nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino,
 15 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)
 pyrrolidinocarbonyl, piperidinocarbonyl, (4-methyl-
 piperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-
 benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl,
 [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-
 20 methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,
 [4-(4-nitrophenyl)piperazino]carbonyl, (4-
 benzylpiperazino)carbonyl, morpholinocarbonyl, or
 thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl,
 methylaminothiocarbonyl, or dimethylaminothiocarbonyl,
 25 (xxxiii) aminosulfonyl, methylaminosulfonyl, or

dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino, (2,5-dichlorophenyl)sulfonylamino, (4-methoxyphenyl)sulfonylamino, (4-acetylamino-phenyl)sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno, (xxxxi) phosphono, and (xxxxii) di-lower alkoxyphosphoryl, [3] 5- to 14-membered heterocyclic group which contains 1 to 6 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, [4] R^2 and R^3 are taken together with the adjacent nitrogen atom to form a 5- to 9-membered nitrogen-containing saturated

heterocyclic group which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom (the heterocyclic group may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl); or

(B) a 5- to 9-membered nitrogen-containing saturated heterocyclic group which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, wherein

said heterocyclic group may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected

from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl,

the nitrogen atom in said nitrogen-containing saturated heterocyclic group may be substituted by (I) alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl-C₂₋₁₂ alkynyl, cycloalkyl-alkyl or aryl-aryl-C₁₋₁₀ alkyl which may be substituted by 1 to 5 substituents selected from (i) halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated lower alkyl, (vii) optionally halogenated lower alkoxy, (viii) optionally halogenated lower alkylthio, (ix) amino, (x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv) lower alkylsulfonylamino, (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-

lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-membered heterocyclic group which contains 1 to 6 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv) C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-methylureido, 3-ethylureido, 3-phenylureido, 3-(4-fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii) thioureido, 3-methylthioureido, 3-ethylthioureido, 3-phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-

(1-naphthyl)thioureido, (xxix) amidino, N¹-methyamidino,
 N¹-ethyamidino, N¹-phenyamidino, N¹,N¹-dimethyamidino,
 N¹,N²-dimethyamidino, N¹-methyl-N¹-ethyamidino, N¹,N¹-
 diethyamidino, N¹-methyl-N¹-phenyamidino, or N¹,N¹-di(4-
 5 nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino,
 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)
 pyrrolidinocarbonyl, piperidinocarbonyl, (4-methyl-
 piperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-
 benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl,
 10 [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-
 methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,
 [4-(4-nitrophenyl)piperazino]carbonyl, (4-
 benzylpiperazino)carbonyl, morpholinocarbonyl, or
 thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl,
 15 methylaminothiocarbonyl, or dimethylaminothiocarbonyl,
 (xxxiii) aminosulfonyl, methylaminosulfonyl, or
 dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-
 methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino,
 (2,5-dichlorophenyl)sulfonylamino, (4-
 20 methoxyphenyl)sulfonylamino, (4-acetylamino)phenyl-
 sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino,
 (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii)
 lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower
 alkylsulfeno, (xxxxi) phosphono, and (xxxxii) di-lower
 25 alkoxyphosphoryl,

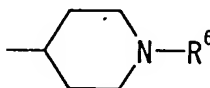
(II) acyl of the formula: $-(C=O)-R^2$, $-(C=O)-OR^2$, $-(C=O)-NR^2R^3$, $-SO_2-R^2$, $-SO-R^2$, $-(C=S)-OR^2$ or $-(C=S)NR^2R^3$ (wherein R^2 and R^3 each is [1] hydrogen, or [2] alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl- C_{2-12} alkynyl, cycloalkyl-alkyl or aryl-aryl- C_{1-10} alkyl which may be substituted by 1 to 5 substituents selected from (i) halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated lower alkyl, (vii) optionally halogenated lower alkoxy, (viii) optionally halogenated lower alkylthio, (ix) amino, (x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv) lower alkylsulfonylamino, (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) 5- to 14-membered heterocyclic group which contains 1 to 6 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower

alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower
 alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered
 cyclic amino which may contain 1 to 3 heteroatoms selected
 from nitrogen, oxygen and sulfur in addition to carbon
 5 atoms and one nitrogen atom, (13) lower alkyl-carbonylamino,
 (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl,
 (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl,
 thiocarbamoyl, (19) mono-lower alkylcarbamoyl, (20) di-
 lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv)
 10 C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-
 methylureido, 3-ethylureido, 3-phenylureido, 3-(4-
 fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-
 methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-
 bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-
 15 naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii)
 thioureido, 3-methylthioureido, 3-ethylthioureido, 3-
 phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-
 methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-
 (2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-
 20 (1-naphthyl)thioureido, (xxix) amidino, N¹-methyramidino,
 N¹-ethyramidino, N¹-phenyramidino, N¹,N¹-dimethyramidino,
 N¹,N²-dimethyramidino, N¹-methyl-N¹-ethyramidino, N¹,N¹-
 diethyramidino, N¹-methyl-N¹-phenyramidino, or N¹,N¹-di(4-
 nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino,
 25 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)

pyrrolidinocarbonyl, piperidinocarbonyl, (4-
 methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl,
 (4-benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl,
 [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-
 5 methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,
 [4-(4-nitrophenyl)piperazino]carbonyl, (4-
 benzylpiperazino)carbonyl, morpholinocarbonyl, or
 thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl,
 methylaminothiocarbonyl, or dimethylaminothiocarbonyl,
 10 (xxxiii) aminosulfonyl, methylaminosulfonyl, or
 dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-
 methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino,
 (2,5-dichlorophenyl)sulfonylamino, (4-
 methoxyphenyl)sulfonylamino, (4-
 15 acetylaminophenyl)sulfonylamino, or (4-
 nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi)
 sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo,
 (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno,
 (xxxxi) phosphono, and (xxxxii) di-lower
 20 alkoxyphosphoryl, or
 (III) 5- to 14-membered heterocyclic group which contains 1
 to 6 heteroatoms selected from nitrogen, oxygen and sulfur
 and which may be substituted by 1 to 5 substituents
 selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo,
 25 (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower

alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one
 5 nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl.

10 12. An agent according to claim 2, wherein Y is a group of the formula:



wherein R⁶ is hydrogen, optionally substituted hydrocarbon group, acyl, or optionally substituted heterocyclic group.

15 13. An agent according to claim 12, wherein R⁶ is (I) hydrogen or (II) alkyl, alkenyl, alkynyl, cycloalkyl, crosslinked cyclic lower saturated hydrocarbon group, aryl, aralkyl, aryl-alkenyl, aryl-C₂₋₁₂ alkynyl, cycloalkyl-alkyl or aryl-aryl-C₁₋₁₀ alkyl which may be substituted by 1 to 5
 20 substituents selected from (i) halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy, (vi) optionally halogenated lower alkyl, (vii) optionally halogenated lower alkoxy, (viii) optionally halogenated lower alkylthio, (ix) amino, (x) mono-lower alkylamino, (xi) di-lower alkylamino, (xii)

5- to 7-membered cyclic amino which may contain 1 to 3
 heteroatoms selected from nitrogen, oxygen and sulfur in
 addition to carbon atoms and one nitrogen atom, (xiii)
 lower alkyl-carbonylamino, (xiv) lower alkylsulfonylamino,
 5 (xv) lower alkoxy-carbonyl, (xvi) carboxy, (xvii) lower
 alkyl-carbonyl, (xviii) carbamoyl, thiocarbamoyl, (xix)
 mono-lower alkyl-carbamoyl, (xx) di-lower alkyl-carbamoyl,
 (xxi) lower alkylsulfonyl, (xxii) lower alkoxy-carbonyl-
 lower alkyl, (xxiii) carboxy-lower alkyl, (xxiv) a group
 10 derived from a 5- to 14-membered heterocycle by removing
 one hydrogen atom, which contains 1 to 6 heteroatoms
 selected from nitrogen, oxygen and sulfur and which may be
 substituted by 1 to 5 substituents selected from (1)
 halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6)
 15 lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9)
 amino, (10) mono-lower alkylamino, (11) di-lower alkylamino,
 (12) 5- to 7-membered cyclic amino which may contain 1 to 3
 heteroatoms selected from nitrogen, oxygen and sulfur in
 addition to carbon atoms and one nitrogen atom, (13) lower
 20 alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15)
 lower alkoxy-carbonyl, (16) carboxy, (17) lower alkyl-
 carbonyl, (18) carbamoyl, (19) mono-lower alkyl-carbamoyl,
 (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl,
 (xxv) C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-
 25 methylureido, 3-ethylureido, 3-phenylureido, 3-(4-

fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-bis(trifluoromethyl)phenyl]ureido, 3-benzylureido, 3-(1-naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii)

5 thioureido, 3-methylthioureido, 3-ethylthioureido, 3-phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-(1-naphthyl)thioureido, (xxix) amidino, N¹-methyamidino,

10 N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethylamidino, N¹,N²-dimethylamidino, N¹-methyl-N¹-ethylamidino, N¹,N¹-diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino, 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)

15 pyrrolidinocarbonyl, piperidinocarbonyl, (4-methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl, [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl,

20 [4-(4-nitrophenyl)piperazino]carbonyl, (4-benzylpiperazino)carbonyl, morpholinocarbonyl, or thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl, methylaminothiocarbonyl, or dimethylaminothiocarbonyl, (xxxiii) aminosulfonyl, methylaminosulfonyl, or

25 dimethylaminosulfonyl, (xxxiv) phenylsulfonylamino, (4-

methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino,
 (2,5-dichlorophenyl)sulfonylamino, (4-
 methoxyphenyl)sulfonylamino, (4-
 acetylaminophenyl)sulfonylamino, or (4-
 5 nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi)
 sulfino, (xxxvii) sulfeno, (xxxviii) lower alkylsulfo,
 (xxxix) lower alkylsulfino, (xxxx) lower alkylsulfeno,
 (xxxxi) phosphono, and (xxxixii) di-lower alkoxyphosphoryl,
 (III) acyl of the formula: $-(C=O)-R^2$, $-(C=O)-OR^2$, $-(C=O)-$
 10 NR^2R^3 , $-SO_2-R^2$, $-SO-R^2$, $-(C=S)-OR^2$ or $-(C=S)NR^2R^3$ (wherein R^2
 and R^3 each is [1] hydrogen, [2] alkyl, alkenyl, alkynyl,
 cycloalkyl, crosslinked cyclic lower saturated hydrocarbon
 group, aryl, aralkyl, aryl-alkenyl, aryl- C_{2-12} alkynyl,
 cycloalkyl-alkyl or aryl-aryl- C_{1-10} alkyl which may be
 15 substituted by 1 to 5 substituents selected from (i)
 halogen, (ii) nitro, (iii) cyano, (iv) oxo, (v) hydroxy,
 (vi) optionally halogenated lower alkyl, (vii) optionally
 halogenated lower alkoxy, (viii) optionally halogenated
 lower alkylthio, (ix) amino, (x) mono-lower alkylamino,
 20 (xi) di-lower alkylamino, (xii) 5- to 7-membered cyclic
 amino which may contain 1 to 3 heteroatoms selected from
 nitrogen, oxygen and sulfur in addition to carbon atoms and
 one nitrogen atom, (xiii) lower alkyl-carbonylamino, (xiv)
 lower alkyl-sulfonylamino, (xv) lower alkoxy-carbonyl,
 25 (xvi) carboxy, (xvii) lower alkyl-carbonyl, (xviii)

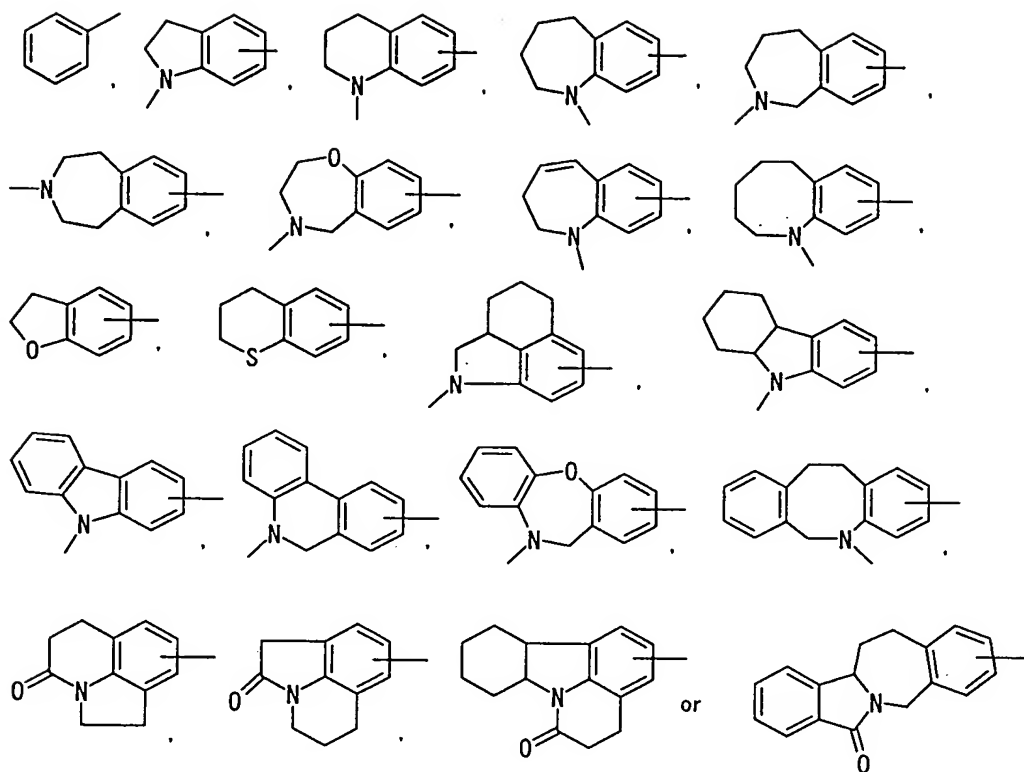
carbamoyl, thiocarbamoyl, (xix) mono-lower alkyl-carbamoyl,
 (xx) di-lower alkyl-carbamoyl, (xxi) lower alkylsulfonyl,
 (xxii) lower alkoxy-carbonyl-lower alkyl, (xxiii) carboxy-
 lower alkyl, (xxiv) a group derived from 5- to 14-membered
 5 heterocycle by removing one hydrogen atom, which contains 1
 to 6 heteroatoms selected from nitrogen, oxygen and sulfur
 and which may be substituted by 1 to 5 substituents
 selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo,
 (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower
 10 alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-
 lower alkylamino, (12) 5- to 7-membered cyclic amino which
 may contain 1 to 3 heteroatoms selected from nitrogen,
 oxygen and sulfur in addition to carbon atoms and one
 nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower
 15 alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16)
 carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl,
 thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-
 lower alkyl-carbamoyl, and (21) lower alkylsulfonyl, (xxv)
 C₆₋₁₄ aryl, (xxvi) C₇₋₁₆ aralkyl, (xxvii) ureido, 3-
 20 methylureido, 3-ethylureido, 3-phenylureido, 3-(4-
 fluorophenyl)ureido, 3-(2-methylphenyl)ureido, 3-(4-
 methoxyphenyl)ureido, 3-(2,4-difluorophenyl)ureido, 3-[3,5-
 bis(trifluoromethyl)phenyl]-ureido, 3-benzylureido, 3-(1-
 naphthyl)ureido, or 3-(2-biphenyl)ureido, (xxviii)
 25 thioureido, 3-methylthioureido, 3-ethylthioureido, 3-

- phenylthioureido, 3-(4-fluorophenyl)thioureido, 3-(4-methylphenyl)thioureido, 3-(4-methoxyphenyl)thioureido, 3-(2,4-dichlorophenyl)thioureido, 3-benzylthioureido, or 3-(1-naphthyl)thioureido, (xxix) amindino, N¹-methyramidino, 5. N¹-ethylamidino, N¹-phenylamidino, N¹,N¹-dimethyramidino, N¹,N²-dimethyramidino, N¹-methyl-N¹-ethyl-amidino, N¹,N¹-diethylamidino, N¹-methyl-N¹-phenylamidino, or N¹,N¹-di(4-nitrophenyl)amidino, (xxx) guanidino, 3-methylguanidino, 3,3-dimethylguanidino, or 3,3-diethylguanidino, (xxxi)
- 10 pyrrolidinocarbonyl, piperidinocarbonyl, (4-methylpiperidino)carbonyl, (4-phenylpiperidino)carbonyl, (4-benzylpiperidino)carbonyl, (4-benzoylpiperidino)carbonyl, [4-(4-fluorobenzoyl)piperidino]carbonyl, (4-methylpiperazino)carbonyl, (4-phenylpiperazino)carbonyl, [4-(4-
- 15 nitrophenyl)piperazino]carbonyl, (4-benzylpiperazino)-carbonyl, morpholinocarbonyl, or thiomorpholinocarbonyl, (xxxii) aminothiocarbonyl, methylaminothiocarbonyl, or dimethylaminothiocarbonyl, (xxxiii) aminosulfonyl, methylaminosulfonyl, or dimethylaminosulfonyl, (xxxiv)
- 20 phenylsulfonylamino, (4-methylphenyl)sulfonylamino, (4-chlorophenyl)sulfonylamino, (2,5-dichlorophenyl)sulfonylamino, (4-methoxyphenyl)sulfonylamino, (4-acetylaminophenyl)sulfonylamino, or (4-nitrophenyl)phenylsulfonylamino, (xxxv) sulfo, (xxxvi) sulfino, (xxxvii) sulfeno, (xxxviii)
- 25 lower alkylsulfo, (xxxix) lower alkylsulfino, (xxxx) lower

alkylsulfeno, (xxxxi) phosphono, and (xxxixii) di-lower alkoxyphosphoryl, or

- (IV) a group derived from a 5- to 14-membered heterocycle by removing one hydrogen atom, which contains 1 to 6
- 5 heteroatoms selected from nitrogen, oxygen and sulfur and which may be substituted by 1 to 5 substituents selected from (1) halogen, (2) nitro, (3) cyano, (4) oxo, (5) hydroxy, (6) lower alkyl, (7) lower alkoxy, (8) lower alkylthio, (9) amino, (10) mono-lower alkylamino, (11) di-
- 10 lower alkylamino, (12) 5- to 7-membered cyclic amino which may contain 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur in addition to carbon atoms and one nitrogen atom, (13) lower alkyl-carbonylamino, (14) lower alkylsulfonylamino, (15) lower alkoxy-carbonyl, (16)
- 15 carboxy, (17) lower alkyl-carbonyl, (18) carbamoyl, thiocarbamoyl, (19) mono-lower alkyl-carbamoyl, (20) di-lower alkyl-carbamoyl, and (21) lower alkylsulfonyl.

14. An agent according to claim 2, wherein Ar is a group of the formula:



and when Ar is phenyl, the phenyl may be substituted by
 substituent(s) selected from (1) halogen, (2) C₁₋₆ alkoxy,
 (3) amino, (4) mono- or di-C₁₋₆ alkylamino, (5) pyrrolidino,
 5 (6) piperidino, (7) piperazino, (8) N-methylpiperazino, (9)
 N-acetylpiperazino, (10) morpholino, (11) hexamethylenimino,
 (12) imidazolyl, and (13) C₁₋₆ alkyl which may be
 substituted by a carboxy optionally esterified by C₁₋₆
 alkyl;

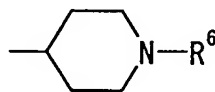
10

when Ar is condensed phenyl, its heterocyclic
 portion may be substituted by substituent(s) selected from
 (1) C₁₋₆ alkyl, (2) C₇₋₁₆ aralkyl which may be substituted by
 substituent(s) selected from halogen, C₁₋₆ alkyl, C₁₋₆ alkoxy
 and nitro, (3) C₁₋₆ alkyl-carbonyl, (4) C₇₋₁₆ aralkyl-

carbonyl, (5) C₆₋₁₄ aryl-carbonyl, (6) C₁₋₆ alkyl-carbonyl-C₆₋₁₄ aryl, (7) C₁₋₆ alkoxy-carbonyl-C₆₋₁₄ aryl and (8) pyridyl;
n is 2;

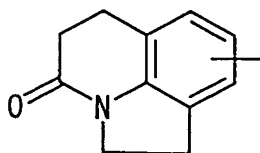
R is hydrogen; and

5 Y is a group of the formula:



wherein R⁶ is (1) hydrogen, (2) C₁₋₆ alkyl which may have a substituent or substituents selected from cyano, hydroxy, mono- or di-C₁₋₆ alkylamino, pyridyl, and carboxy optionally esterified, (3) C₇₋₁₆ aralkyl which may be substituted by substituent(s) selected from halogen, C₁₋₆ alkyl, halogeno C₁₋₆ alkyl, hydroxy, C₁₋₆ alkoxy, nitro, amino, cyano, carbamoyl, C₁₋₆ alkoxy optionally substituted by carboxy which may be esterified, carbamoyl optionally substituted by C₁₋₆ alkyl or amino optionally substituted by formyl, and C₁₋₃ alkylenedioxy, (4) C₁₋₆ alkyl which may be substituted by carboxy optionally esterified, or (5) C₁₋₆ alkyl-carbonyl optionally substituted by mono- or di-C₁₋₆ alkylamino.

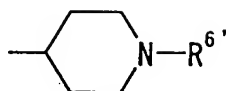
15. An agent according to claim 2, wherein Ar is
20 a group of the formula:



n is 2;

R is hydrogen; and

Y is a group of the formula:



wherein R^{6'} is benzyl which may be substituted by 1 or 2
 5 substituents selected from halogen, C₁₋₃ alkyl, C₁₋₃ alkoxy, cyano, nitro and hydroxy.

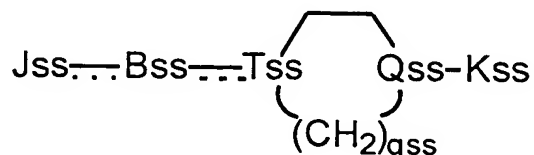
16. An agent according to claim 1, which comprises:

8-[3-[1-[(3-fluorophenyl)methyl]-4-piperidinyl]-
 10 1-oxopropyl]-1,2,5,6-tetrahydro-4H-pyrrolo[3,2,1-
 ij]quinolin-4-one;

8-[3-[1-(phenylmethyl)-4-piperidinyl]-1-
 oxopropyl]-1,2,5,6-tetrahydro-4H-pyrrolo[3,2,1-ij]quinolin-
 4-one; and

15 8-[3-[1-[(2-hydroxyphenyl)methyl]-4-piperidinyl]-
 1-oxopropyl]-1,2,5,6-tetrahydro-4H-pyrrolo[3,2,1-
 ij]quinolin-4-one;
 or a salt thereof.

17. An agent according to claim 1, wherein the
 20 amine compound is a compound of the formula:

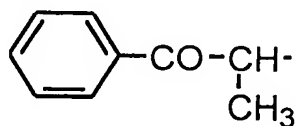


wherein Jss is (a) the following substituted or

unsubstituted group: (1) phenyl, (2) pyridyl, (3) pyrazyl,
(4) quinolyl, (5) cyclohexyl, (6) quinoxalyl, or (7) furyl,

(b) a monovalent or divalent group selected from the
following group, of which the phenyl moiety may be

5 substituted: (1) indanyl, (2) indanonyl, (3) indenyl, (4)
indenonyl, (5) indanedionyl, (6) tetralonyl, (7)
benzsuberonyl, (8) indanoly, or (9) a group of the
formula:



10 (c) a monovalent group derived from a cyclic amide compound,
(d) lower alkyl, or
(e) a group of the formula $R_{1ss}-CH=CH-$ (where R_{1ss} is
hydrogen or lower alkoxy carbonyl);

Bss is a group of the formula: $-(CHR_{2ss})nss-$, a
15 group of the formula: $-CO-(CHR_{2ss})nss-$, a group of the
formula: $-NR_{3ss}-(CHR_{2ss})nss-$ (where R_{3ss} is hydrogen, lower
alkyl, acyl, lower alkylsulfonyl, optionally substituted
phenyl or benzyl), a group of the formula: $-CO-NR_{4ss}-$
 $(CHR_{2ss})nss-$ (where R_{4ss} is hydrogen, lower alkyl or phenyl),
20 a group of the formula: $-CH=CH-(CHR_{2ss})nss-$, a group of the
formula: $-O-COO-(CHR_{2ss})nss-$, a group of the formula: $-O-CO-$
 $NH-(CHR_{2ss})nss-$, a group of the formula: $-NH-CO-(CHR_{2ss})nss-$,
a group of the formula: $-CH_2-CO-NH-(CHR_{2ss})nss-$, a group of

the formula: $-(CH_2)_2-CO-NH-(CHR_{2ss})nss-$, a group of the
 formula: $-C(OH)H-(CHR_{2ss})nss-$ (in the above formulae, nss
 indicates 0 or an integer of 1 - 10; R_{2ss} means hydrogen or
 methyl when the alkylene of the formula $-(CHR_{2ss})nss-$ has no
 5 substituent or it has 1 or more of methyl), a group of the
 formula: $=(CH-CH=CH)bss-$ (where bss is an integer of 1 - 3),
 a group of the formula: $=CH-(CH_2)css-$ (where css is 0 or an
 integer of 1 - 9), a group of the formula: $=(CH-CH)dss=$
 (where dss is 0 or an integer of 1 - 5), a group of the
 10 formula: $-CO-CH=CH-CH_2-$, a group of the formula: $-CO-CH_2-$
 $C(OH)H-CH_2-$, a group of the formula: $-C(CH_3)H-CO-NH-CH_2-$, a
 group of the formula: $-CH=CH-CO-NH-(CH_2)_2-$, a group of the
 formula: $-NH-$, a group of the formula: $-O-$, a group of the
 formula: $-S-$, dialkylaminoalkylcarbonyl or lower
 15 alkoxycarbonyl;

Tss is nitrogen or carbon;

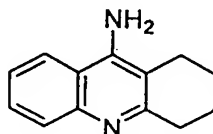
Qss is nitrogen, carbon or a group of the formula
 $>N \rightarrow O$;

Kss is hydrogen, substituted or unsubstituted
 20 phenyl, arylalkyl of which the phenyl moiety may be
 substituted, cinnamyl of which the phenyl moiety may be
 substituted, lower alkyl, pyridylmethyl, cycloalkylalkyl,
 adamantanemethyl, furylmethyl, cycloalkyl, lower
 alkoxycarbonyl or acyl;

25 qss is an integer of 1 - 3;

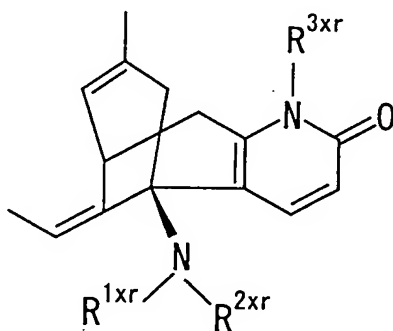
--- indicates a single bond or double bond;
or a salt thereof.

18. An agent according to claim 1, wherein the
amine compound is 9-amino-1,2,3,4-tetrahydroacridine of the
5 formula:



or a salt thereof.

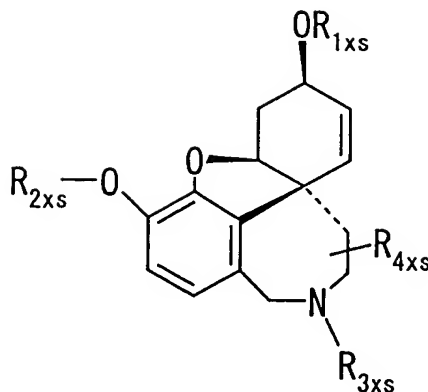
19. An agent according to claim 1, wherein the
amine compound is a compound of the formula:



10

wherein R^{1xr} , R^{2xr} and R^{3xr} each is hydrogen or lower alkyl;
or a salt thereof.

20. An agent according to claim 1, wherein the
amine compound is galanthamine derivatives of the formula:



wherein R_{1xs} and R_{2xs} are the same or different, each representing hydrogen or acyl, or straight or branched alkyl;

5 R_{3xs} is straight or branched alkyl, alkenyl or alkaryl, and these groups may be replaced optionally by halogen, cycloalkyl, hydroxy, alkoxy, nitro, amino, aminoalkyl, acylamino, heteroaryl, heteroaryl-alkyl, aroyl, aroylalkyl, or cyano;

10 R_{4xs} means hydrogen or halogen attached to at least one of carbon atoms that constitute the tetra-cyclic skeletal structure;
or a salt thereof.

21. An agent according to claim 1 which is a
15 therapeutic agent for dysuria.

22. An agent according to claim 1 which is a therapeutic agent for difficulty of urination.

23. An agent for improving excretory potency of the urinary bladder which comprises a combination of an α -

blocker and an amine compound of non-carbamate-type having an acetylcholinesterase-inhibiting action.

24. Use of an amine compound of non-carbamate-type having an acetylcholinesterase-inhibiting action for
5 production of an agent for improving excretory potency of the urinary bladder.

25. A method for improving excretory potency of the urinary bladder which comprises administering an amine
compound of non-carbamate-type having an
10 acetylcholinesterase-inhibiting action.